USER'S MANUAL

Please read this USER'S MANUAL carefully before installation.

English

Applicable Models

ZEROtherm Nirvana NV120
ZEROtherm Nirvana NV120 Premium

Specifications

Models		Nirvana NV120
Dimension (L×W×H)		128×95×150 mm (5.04×3.74×5.91 inch)
Material	Fin	Aluminum
	Base	Copper
	Heat pipe	Copper (Sintered type)
Heat dissipation area		6,748 cm^2 (1,046 $inch^2$)
Cooling capacity		Over 150 W
Fan	Size	120×25 mm (4.72×0.98 inch)
	Speed	1,000~2,300 rpm (w/Fan controller)
	Acoustical noise	Under 39 dB±10%
	Connector type	3 pin
	Operating voltage	5.0 ~ 13.8 VDC
	Consuming power	Max. 5.0W
	Airflow	Max. 84.7 CFM (2.4 m^3/min)
Weight		628 g (w/o components)

Features

Silence Innovations

- Ultra maglev forms oil protection bearing technology adapted.
- Free RPM setting (1,000~2,300rpm) using the fan controller.
- Creation of optimized airflow with the honeycombed shape.

Killer Performance

- Efficient 8-line heat pipe effects.
- Polished copper base for better thermal conductivity.
- High performance thermal grease adapted.

Creative & Cool Design

- Product design with the peculiar honeycombed shape.
- Super bright LEDs.

Compatibility

- Intel socket 775 up to Core™ 2 Duo & Core™ 2 Quad
- AMD socket 754, 939, 940 and AM2

Patents

- Republic of Korea patent application No. : 40-0564565-0000
- Republic of Korea design application No. : 30-2007-29492
- Patent applications pending around the world including USA, EU, and Japan

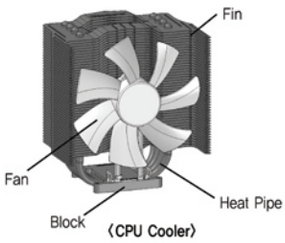
Precaution

- CPU and motherboard are subject to damage if the product is incorrectly installed. Familiarize yourself with this "USER'S MANUAL" before installing the product.
- Excessive force may result in malfunction or damage to the fan, the product or the computer. Avoid inserting any objects into the fan while operating.
- The product is not compatible with a slim body type case. Please check the compatibility at www.zerotherm.co.kr (or www.apack.net)
- APACK Inc is not responsible for any damage to the product, and/or the computer including CPU resulted from:

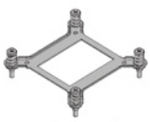
  1). Incorrect installation 2). CPU overclocking.

Components

❶ CPU Cooler
❷ Intel Clip
❸ Back Plate (For Intel)
❹ AMD Clip
❺ Clip Screw (4pcs)
❻ Thermal Grease
❼ Fan Controller
❽ User's Manual



〈CPU Cooler〉


〈Intel Clip〉

〈Back Plate〉

〈AMD Clip〉

〈Clip Screw (4pcs)〉

〈Thermal Grease〉

〈Fan Controller〉

Installation (Intel-Socket 775)

Install Back Plate

1. Remove the thin paper film from the back plate to expose the insulating tape. [Picture 1]
2. Attach the back plate to the back side of the main board with the socket RM (Retention Mechanism) holes lined up.

Spread Thermal Grease

1. Clean off particles or dust from the top of the CPU.
2. Spread thermal grease thinly and evenly on top of the CPU.

Install Intel Clip

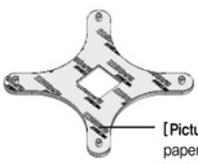
1. Install Intel clip using a screw driver on the bottom of the cooler.

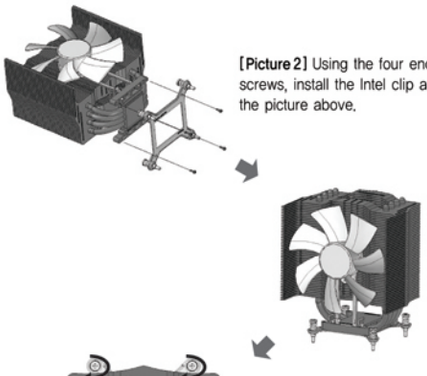
   【Caution】 Excessive force may damage the heat pipes. It is easy to install the clip after laying the product down sideways like [Picture 2].

Install Cooler

1. Fasten the screws with a driver and install the cooler on the CPU.

   【Caution】 Make sure that there are no interfering components before installing the cooler.


[Picture 1] Remove the thin paper film, and then attach the back side of the main board.


[Picture 2] Using the four enclosed screws, install the Intel clip as in the picture above.

Installation (AMD-Socket 754/939/940/AM2)

Spread Thermal Grease

1. Clean off particles or dust from the top of the CPU.
2. Using the finger coat, evenly apply thermal grease to the CPU surface in a thickness of about 0.3 mm.

Install AMD Clip

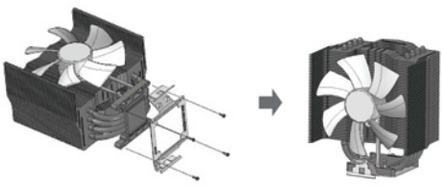
1. Install AMD clip using a screw driver on the bottom of the cooler. [Picture 3~4]
2. The AMD clip can be installed horizontally or vertically in accordance with your motherboard's RM (Retention Mechanism).

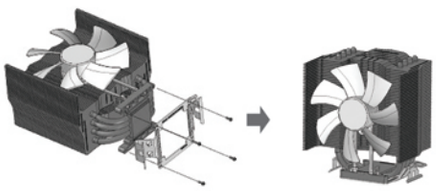
   【Caution】 Excessive force may damage the heat pipes. It is easy to install the clip after laying the product down sideways like [Picture 3~4].

Install Cooler

1. Insert the retention frame latch through the square hole of the clip.

   【Caution】 When installing the cooler, take heed not to cause obstruction to any parts around the CPU.


[Picture 3] Horizontal type


[Picture 4] Vertical type

Waranty & Disclaimer

- **Warranty** : 2 Years from the purchase date
- **APACK INC.** is not responsible for any damage due to external causes, including but not limited to, improper use, problems with electrical power, accident, neglect, alteration, repair, improper installation, or improper testing.
  - www.zerotherm.net // www.apack.net
  - support@apack.net